

Claims

- [c1] > What is claimed is:
1. A light capturing device, comprising:
a cylindrical array of light-conducting fibers arranged in a horizontal plane to fully encompass and receive the light energy from a point source light radiator .
- [c2]
- [c3] 2. The light capturing device of claim 1, further comprising:
the ability to alter the vertical position of the fiber array relative to the light source in a manner that will result in a corresponding attenuation of the amount of light captured by the array.
- [c4] 3. The light capturing assembly of claim 2, further comprising:
a drive system capable of positioning the fiber array and/or the light source mechanically or electromechanically to achieve the desired degree of light attenuation.
- [c5] 4. The light capturing assembly of claim 3, further comprising:
a solar panel array positioned above and/or below the fiber array that converts light energy that is not captured by the fiber array into an electrical power source to position the aforementioned drive systems .
- [c6] 5. The light capturing assembly of claim 1, further comprising:
an electrically controlled variable light attenuator positioned in the output light path. This attenuator is powered by the solar panel(s) of claim 4 and actuated either locally or remotely.